

Blender Final Castle Project + AR

Updated August 2022

Purpose:

This final project serves as an opportunity for students to create a castle using all of the tools that they have learned over the previous lessons. Creating a castle provides several challenges and can be created with a basic level of knowledge, or can be extended upon by creating something much more complex and detailed.

Instructions:

Students are to create a castle with the following elements:

- 3 - 4 Wall Towers (Roof Optional)
 - At least 1 or two “windows” located within each of these towers
- Castle must be encircled with walls
- An entryway into the castle must be created
 - A drawbridge and moat is not necessary.
- An inner-castle building with tower must be visible
- Materials (including HDRI's) added to the project meshes.

AR Component

Students are required to save their Blender files as '.blend' and export their castles into Adobe Aero where they will create an Adobe Aero AR Experience. It can include (but not limited to) the addition of behaviours.

Students will export their Adobe Aero experience as a shareable QR Code, so that they can display their castles within the classroom and to be shared with other students.

To Submit:

- 1) A completed Blender (.blend) Castle with the above criteria elements/components within it
- 2) A QR code from Adobe Aero that can be used to share their project with their peers.

Assessment Rubric

	Emerging (0-1)	Developing (2)	Proficient (3)	Extending (4)
Criteria	Incomplete / Missing	Many criteria components are missing from Castle.	95-100% of the criteria components found easily located, with no additional	All criteria components placed within Blender project, with multiple additional

			content. <i>Possible one or two additional components located.</i>	components not asked for present in the Blender file.
Detail	Little to no attention to detail.	More attention to detail required. Some mesh objects are not touching or are left incomplete.	Good level and attention to detail. Most objects / meshes created detail in mind, and do not have glaring issues / mistakes.	Great attention to detail and design. Castle walls show great level of detail and design (all original), with proper materials attached.
AR Element	No AR QR code submitted.	Augmented Reality QR Code submitted. However, it is difficult to view due to scaling issues, or other AR related problems.	Augmented Reality QR Code submitted. Display is functional and easy to view castle components.	Augmented Reality QR Code displays functional and easy to view castle. Additional 'behaviours' were added to create a more unique viewing experience.